

CS72-38

Insecticide (Liquid-Spray-Type); Household

U. S. DEPARTMENT OF COMMERCE

DANIEL C. ROPER, Secretary

NATIONAL BUREAU OF STANDARDS

LYMAN J. BRIGGS, Director

Bureau of Standards

SEP 30 1938

HOUSEHOLD INSECTICIDE

(LIQUID SPRAY TYPE)

COMMERCIAL STANDARDS CS72-38

Effective Date, June 10, 1938



A RECORDED STANDARD OF THE INDUSTRY

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1938

PROMULGATION
of
COMMERCIAL STANDARD CS72-38
for
HOUSEHOLD INSECTICIDE
(LIQUID SPRAY TYPE)

On September 20, 1937, the National Association of Insecticide and Disinfectant Manufacturers, Inc., proposed the establishment of a Commercial Standard for Household Insecticide (Liquid Spray Type). Accordingly, after preliminary conferences with other interested organizations, including the Federal Food and Drug Administration, the proposal was submitted on March 23, 1938, to manufacturers, distributors, and users for the approval of all concerned. The industry has since accepted and approved for promulgation by the United States Department of Commerce, through the National Bureau of Standards, the standard as shown herein.

The standard became effective on June 10, 1938.

Promulgation recommended.

I. J. Fairchild,
Chief, Division of Trade Standards.

Promulgated.

Lyman J. Briggs,
Director, National Bureau of Standards.

Promulgation approved.

Daniel C. Roper,
Secretary of Commerce.

HOUSEHOLD INSECTICIDE (LIQUID SPRAY TYPE)

COMMERCIAL STANDARD CS72-38

PURPOSE

1. The purpose of this commercial standard is to provide a specification for quality, as a basis for understanding and voluntary guaranties between producers, distributors, and users in the purchase of this commodity, and as a foundation for confidence on the part of purchasers that the efficacy of the material is that which may be expected of liquid spray type household insecticide manufactured in conformity with a nationally recognized specification.

SCOPE

2. This standard covers the methods of test, biological, physical, and chemical properties, and certification of quality of liquid spray type household insecticide.

GENERAL REQUIREMENTS

3. The killing power of the liquid spray type household insecticide shall be determined by the Official Peet-Grady Method in conjunction with the Official Test Insecticide of the National Association of Insecticide and Disinfectant Manufacturers, Inc.

4. The killing power of the insecticide shall be designated by letter and shall be in accordance with the following grading system:

Grade	Difference between 24-hour "percentage kill" of insecticide and that of the OTI
AA.....	+ 16 or greater.
A.....	+ 6 to + 15.
B.....	- 5 to + 5.

5. This insecticide shall be harmless to man and warm-blooded household animals when used as directed.

6. When sprayed as directed, it shall not stain fabrics, wall paper, and general household furnishings that are not stained by dry-cleaning fluids.

7. When used in the customary manner, it shall not contaminate closed packages of food materials commonly found in homes.

8. It shall not corrode metals.

9. It shall have no objectionable odor, and no particular odor shall be specified.

10. It shall have a flash point not less than 125° F when tested in the Tagliabue closed cup.

METHODS OF TEST

11. *Peet-Grady method.*—The Peet-Grady method of determining efficiency of contact liquid insecticides is subject to variations that necessitate close attention to details of equipment and procedure to obtain comparable results. Refinements that result in higher precision are being developed by constant research and are incorporated in the official method from time to time. A copy of the official method setting forth the necessary details is available from the National Association of Insecticide and Disinfectant Manufacturers, Inc., 110 East 42d Street, New York, N. Y., or from the distributor of the "Official Test Insecticide." The following resumé is intended for general information of those not actively engaged in conducting the test:

11a. *Official Test Insecticide.*—To equalize variables not otherwise controlled, such as varying resistance of insects, grading is based on the killing power of the "Official Test Insecticide" prepared by the National Association of Insecticide and Disinfectant Manufacturers, Inc., and made available to all laboratories.

11b. *Test insect.*—House flies (*Musca domestica*, L.) are used. Healthy individuals are reared under prescribed conditions and used when not less than 3 nor more than 5 days old. Such insects are in general more resistant than wild house flies to insecticides.

11c. *Peet-Grady test chamber.*—The test chamber is a 6-foot (inside) cube, constructed of wood or metal and lined so the inner surface is smooth, relatively nonporous, and free of cracks, projections, ledges, etc. One wall is provided with a tight fitting door large enough for a man to enter conveniently, with the interior side flush with the wall when closed. The other walls and ceiling are provided with glass windows for observation and lighting; various openings are provided for admitting insects and the insecticide, and for ventilation after test.

11d. *Test procedure.*—Approximately 100 flies are transferred to the thoroughly cleaned Peet-Grady chamber. All ports and entrances are closed and 12 ml of the insecticide are introduced by means of a special type atomizer. The chamber is kept closed for 10 minutes beginning from the time the spray is started. At the end of this time, the ventilating ports are opened and the exhaust fan turned on. The number of flies clinging to the ceiling and walls, together with any still flying, are counted and considered unaffected by the insecticide. The flies which have fallen to the floor are carefully transferred to observation cages. At the end of 24 hours, the insects are counted and the number dead, plus those that have revived, are added to the number unaffected, to obtain the total number of flies used. The number of flies dead in the observation cage after 24 hours multiplied by 100 and divided by the total number used gives the "percentage kill." To be counted as dead, an insect must show no signs of life upon being disturbed.

11e. *Grading.*—The insecticide tested is graded by comparing the percentage kill with that obtained on flies of the same culture by the Official Test Insecticide. (See paragraph 4.)

12. *Corrosion test.*—Test for Detection of Free Sulfur and Corrosive Sulfur Compounds in Gasoline. ASTM ¹ Method D 130-30.

¹ American Society for Testing Materials, 260 South Broad Street, Philadelphia, Pa.

13. *Flash test*.—ASTM Method D 56-36.

14. The following form of statement on labels, invoices, etc., is recommended:

The ----- Company certifies this household insecticide (liquid spray type) to conform to all requirements of the standard adopted by the NATIONAL ASSOCIATION OF INSECTICIDE AND DISINFECTANT MANUFACTURERS, Inc., and recorded as Commercial Standard CS72-38 by the National Bureau of Standards of the United States Department of Commerce.

Grade -----

EFFECTIVE DATE

The standard became effective on June 10, 1938.

STANDING COMMITTEE

The following comprises the membership of the Standing Committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Division of Trade Standards, National Bureau of Standards, which acts as secretary for the committee.

Manufacturers:

JOHN N. CURLETT (chairman), McCormick & Co. Inc., McCormick Bldg., Baltimore, Md.

L. D. BENEDICT, Midway Chemical Co., 5235 W. 65th St., Chicago, Ill.

WALLACE THOMAS, Gulf Oil Corporation, Gulf Bldg., Pittsburgh, Pa.

Distributors:

J. W. SCHIFFER, The Federal Sanitation Co., Inc., 2340 Euclid Ave., Cleveland, Ohio.

F. A. HOYT, Frederick Disinfectant Co., Box 1556, Atlanta, Ga.

ELLIS DAVIDSON, Ellis Davidson Co., Inc., 38 West 21st St., New York, N. Y.

Users:

Dr. STROUD JORDAN, Department of Purchase, City of New York, New York, N. Y.

M. M. DONOHUE, Bureau of Standards, Department of Property and Supplies, Commonwealth of Pennsylvania, Harrisburg, Pa.

Dr. C. C. McDONNELL, Insecticide Division, Food and Drug Administration, U. S. Department of Agriculture, Washington, D. C.

General interest:

F. W. REYNOLDS (secretary), Division of Trade Standards, National Bureau of Standards, Washington, D. C.

HISTORY OF PROJECT

On September 20, 1937, the National Association of Insecticide and Disinfectant Manufacturers, Inc., requested the establishment of a commercial standard for household insecticide (liquid spray type), and submitted as a basis for such a standard, a specification adopted officially by the Association and followed by a large proportion of the membership.

The Division of Trade Standards consulted other interested individuals and organizations, and led the discussion of the proposed commercial standard at a convention of the Association in New York City on December 6, 1937. After discussion, the convention voted to recommend establishment of a commercial standard through the regular procedure of the National Bureau of Standards.

In view of the large consumer and distributor participation during the Association convention and subsequent review of the proposed commercial standard by the Federal Food and Drug Administration, it appeared that the purpose of a public hearing had been accomplished and the situation did not warrant the calling of a general conference for further consideration of the specification.

Accordingly, on March 23, 1938, the recommended commercial standard was circulated to the industry for written acceptance by producers, distributors, and users. Following satisfactory acceptance and in the absence of active opposition, the establishment of the standard was announced June 10, 1938.

Date_____

Gentlemen:

Production¹ Distribution¹ Use¹

of household insecticide (liquid spray type).

Signature of individual officer_____ (In ink)

(Kindly typewrite or print the following lines)

Name and title of above officer_____

Company _____
(Fill in exactly as it should be listed in pamphlet)

Street address _____

City and State_____

¹ Please designate which group you represent by drawing lines through the other two. Please file separate acceptances for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade papers, colleges, etc., desiring to record their general approval, the words "in principle" should be added after the signature.

TO THE ACCEPTOR

The following statements answer the usual questions arising in connection with the acceptance and its significance:

1. *Enforcement.*—Commercial standards are commodity specifications voluntarily established by mutual consent of the industry. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the industry as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts by means of labels, invoices, and the like.

2. *The acceptor's responsibility.*—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production, distribution, or consumption of the article in question.

3. *The Department's responsibility.*—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is fourfold: first, to act as an unbiased coordinator to bring all branches of the industry together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptance and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. *Announcement and promulgation.*—When the standard has been endorsed by companies representing a satisfactory majority of production, the success of the project is announced. If, however, in the opinion of the standing committee of the industry or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.

SUPPLEMENTARY LIST OF ACCEPTORS TO ACCOMPANY COMMERCIAL STANDARD CS72-38

(June 28, 1940)

The manufacturers, distributors, and consumers listed below indicated in writing their acceptance of Commercial Standard for Household Insecticide (Liquid Spray Type), CS72-38, during the interval between the first and second printing of this publication.

FIRMS

Albany Laboratories, Inc., Albany, N. Y.	Murphy Products Co., Washington, D. C.
Antrol Laboratories, Inc., Los Angeles, Calif.	Ohio Oil Co., The, Findlay, Ohio.
Apex Chemical Co., Apex, N. C.	Owensboro Chemical Co., Frankfort, Ky.
Bingo Co., The, Houston, Tex.	Pacific Drexel Service, Oakland, Calif.
Brilco Laboratories, Inc., New York, N. Y.	Parsons Chemical Works, Grand Ledge, Mich.
C-Z Chemical Co., Beloit, Wis.	Powers Chemical Co., Milwaukee, Wis.
Cenol Co., Chicago, Ill.	Pro-Tex-All Co., Inc., Evansville, Ind.
Commercial Laboratories, Dayton, Ohio.	Royal Manufacturing Co. of Duquesne, Chicago, Ill.
Creosote Products Co., Cincinnati, Ohio.	Ruether Co., Carl H., Chicago, Ill.
Dr. Ward's Medical Co., Winona, Minn.	Sanco Products Co., Inc., Greenville, Ohio.
Drexel Co., The, St. Louis, Mo.	Shell Oil Co., Inc., New York, N. Y.
Gateway Chemical Co., Inc., Kansas City, Mo.	Slagter Oil & Grease Co., Milwaukee, Wis.
Guardian Chemical Co., Atlanta, Ga.	Smith & Co., H. V., St. Paul, Minn.
Huge Co., The, St. Louis, Mo.	Solarine Co., Baltimore, Md.
Ins-Ex Manufacturing Co., New York, N. Y.	Teepee Chemical Co., New York, N. Y.
Keystone Sanitary Supply Co., Greensburg and Wilkes-Barre, Pa.	Thompson's Janitor Supply Co., Dayton, Ohio.
Killant Chemical Co., Fort Worth, Tex.	Trojan Products & Manufacturing Co., Chicago, Ill.
Master Supply Co., New York, N. Y.	U. S. Sanitary Specialites Corporation, Chicago, Ill.
McConnon & Co., Winona, Minn.	White Prince Products Co., Joliet, Ill.
McCormick & Co., Inc., Baltimore, Md.	Wyoming Valley Chemical Co., Wilkes-Barre, Pa.
Midland Chemical Laboratories, Inc., Dubuque, Iowa.	Yale Oil Corporation, Billings, Mont.
Midway Chemical Co., Chicago, Ill.	Zip Manufacturing Co., Little Rock, Ark.

ACCEPTORS

The organizations and individuals listed below have accepted this specification as their standard of practice in the production, distribution, and use of liquid spray type household insecticide. Such endorsement does not signify that they may not find it necessary to deviate from the standard, nor that producers so listed guarantee all of their products to conform with the requirements of this standard. Therefore specific evidence of quality certification should be obtained where required.

ASSOCIATIONS

American College of Surgeons, Chicago, Ill.
 American Hospital Association, Committee on Simplification and Standardization of Hospital Furnishings, Supplies, and Equipment, Chicago, Ill.
 American Hotel Association of the United States and Canada, New York, N. Y. (In principle.)
 American Sanatorium Association, New York, N. Y.
 Associated Industries, Ashton, Md.
 National Council of Women, Consumer Interests, Belmont, Mass.
 Overlook Hospital Association, Summit, N. J.

FIRMS

Abbott Co., The, Milwaukee, Wis.
 Ace Supply Co., Detroit, Mich.
 Acme Chemical Co., Milwaukee, Wis.
 Acme Exterminating Co., Boston, Mass.
 Acme Refining Co., The, Cleveland, Ohio.
 Acme Sanitary Supply Co., Denver, Colo.
 Adams Co., The E. B., Washington, D. C.
 Advanced Exterminating Service, Chicago, Ill.
 Adwin Bag Manufacturing Co., Inc., Philadelphia, Pa. (In principle.)
 Alabama School Supply Co., Montgomery, Ala.
 Allen & Vickers, Atlanta, Ga. (In principle.)
 Allott Hardware Co., Alliance, Ohio.
 Alpha Chemical Co., Inc., Baltimore, Md.
 Amazon Chemical Co., Utica, Ill.
 American Brush Co., Portland, Oreg.
 American Desk Manufacturing Co., Temple, Tex.

American Disinfectant Co., Washington, D. C.
 American Disinfecting Co., Inc., Sedalia, Mo.
 American Fluoride Corporation, New York, N. Y.
 American Oil and Disinfectant Corporation, New York, N. Y.
 Antiseptic Products Co., The, Denver, Colo.
 Antrol Laboratories, Inc., Los Angeles, Calif.
 Apex Soap and Sanitary Corporation, Pittsburgh, Pa.
 Apothecaries Hall Co., Waterbury, Conn.
 Argosy Manufacturing Co., Kansas City, Mo.
 Arkansas Paper Co., Little Rock, Ark.
 Armitage Exterminating Co., A., Chicago, Ill.
 Arnold Drug Co., Topeka, Kans.
 Arwell, Inc., Waukegan, Ill.
 Astor Exterminating Co., Boston, Mass.
 Atkins Manufacturing Co., Columbia, Mo.
 Atlantic Refining Co., Philadelphia, Pa. (In principle.)
 Atlas Sanitary Products, Inc., Wildwood, N. J.
 Auto-Laks Manufacturing Co., Inc., New York, N. Y.
 Avidan, Inc., Henry G., Freeport, N. Y.
 Azuria Chemical Co., Inc., Akron, Ohio.
 Baird & McGuire, Inc., Holbrook, Mass., and St. Louis, Mo.
 Baldwin Laboratories, Inc., Saegertown, Pa.
 Bamford, Inc., M. W., Reading, Pa. (In principle.)
 Banner Manufacturing Co., Denver, Colo.
 Baptist State Hospital, Little Rock, Ark.
 Baron Co., Inc., H. J., El Paso, Tex.
 Barton Chemical Co., Chicago, Ill.

- Bauer & Co., H. B., Philadelphia, Pa.
 Beck Co., Arthur, Chicago, Ill.
 Bell Co., S. H., Pittsburgh, Pa.
 Bengal-Union Paint Organization, New York, N. Y.
 Benton Service Co., Cortland, N. Y.
 Berger Supply Co., Inc., S. J., Brooklyn, N. Y.
 Berghauser Co., J. W., Scranton, Pa.
 Bernstein Co., The, Los Angeles, Calif.
 Best Chemical Co., Ft. Worth, Tex.
 Beuret Chemical Laboratories, Fort Wayne, Ind.
 Birmingham, City of, Birmingham, Ala.
 Black & Co., Decatur, Ill.
 Black Flag Co., The, Baltimore, Md.
 Blue Heven Corporation, The, North Kansas City, Mo.
 Blue Ribbon Sanitary Products, St. Louis, Mo.
 Blum & Co., Inc., D., New York, N. Y.
 Bohman Brothers, Inc., Hartford, Conn.
 Boren & Malone Co., Wewoka, Okla.
 Bragdon Paint Co., M. F., Portland, Maine.
 Braham Laboratories, Inc., Cleveland, Ohio.
 Breslau & Lyndwood Supply Co., Plymouth, Pa.
 Breuer Electric Manufacturing Co., Chicago, Ill. (In principle.)
 Brier Lane Laboratories, Penns Grove, N. J.
 Brigham Co., C. T., Pittsfield, Mass.
 Brilliant Chemical Co., Inc., Brooklyn, N. Y.
 Brown, Inc., I. Edward, New York, N. Y.
 Buffalo Scientific Co., Buffalo, N. Y.
 Builders' Specialty Co., Peoria, Ill. (In principle.)
 Building Supply Co., Chicago, Ill.
 Burwinkle-Hendershot Co., Louisville, Ky.
 Butler Co., William, Providence, R. I.
 By-Joy Chemical Products, Stockton, Calif.
 Cabell Chemical Co., The, Huntington, W. Va.
 Calde Exterminating Co., New York, N. Y.
 Caldwell, Pittsburgh, Pa.
 Canadian Germicide Co., Ltd., Toronto, Canada.
 Capitol Paper Co., Hartford, Conn. (In principle.)
 Carman-Roberts Co., Inc., Pittsburgh, Pa. (In principle.)
 Castle Chemical Co., New Castle, Pa.
 Centennial Drug and Supply Co., Denver, Colo.
 Central Chemical Co., Kansas City, Mo.
 Central Mercantile Co., St. Joseph, Mo.
 Central Supply Co., Buffalo, N. Y.
 Central Wisconsin Paper Co., Wausau, Wis.
 Certified Products Co., Inc., Birmingham, Ala.
 Certified Supply Co., New York, N. Y.
 Chafee Supply Service, Shelbyville, Ind.
 Chamberlain Chemical Co., T. D., Scranton, Pa.
 Chapman & Sons Co., W. H., Wheeling, W. Va. (In principle.)
 Charlotte Sanitary Supply Co., Charlotte, N. C.
 Chemical Products, Inc., Shelton, Conn.
 Chemical Specialities Co., Milwaukee, Wis.
 Chemical Spray Co., Minneapolis, Minn.
 Chemical Supply Co., The, Cleveland, Ohio.
 Children's Country Home, Westfield, N. J.
 Chippewa Products, Co. St. Louis, Mo.
 Chrisman Supply Co., Inc., Fayetteville, N. Y.
 Cincinnati, City of, Cincinnati, Ohio.
 Cities Service Oil Co. (Delaware), Bartlesville, Okla.
 City Janitor Supply and Brush Co., St. Louis, Mo.
 City Service Cleaning Contractors, Inc., Pittsburgh, Pa.
 Claire Manufacturing Co., Chicago, Ill.
 Clark Products Co., Springfield, Mass.
 Clark's Store Fixtures, Flint, Mich.
 Clarkson Chemical Co., Inc., South Williamsport, Pa.
 Cody Chemical Co., Manchester, N. H.
 Colborn School Supply Co., Grand Forks, N. Dak.
 Conkey Co., The G. E., Cleveland, Ohio.
 Conray Products Co., New York, N. Y.
 Consolidated Drug Corporation, New Orleans, La.
 Consumers' Testing Laboratories, Philadelphia, Pa. (In principle.)
 Continental Chemical Co., The, Cleveland, Ohio.
 Cooper, D. L., Brooklyn, N. Y.
 Cooperative G. L. F. Farm Supplies, Inc., Phelps, N. Y.
 Copley Chemical Co., Everett, Mass.
 Corkins Chemical Co., The, Cincinnati, Ohio.
 Cotton Products Co., Des Moines, Iowa.
 Creco Co., Inc., Long Island City, N. Y.
 Crosetti Bro. & Co., A., San Francisco, Calif.
 Crown Chemical Corporation, Milwaukee, Wis.
 Crystal Laboratories Co., The, Pittsburgh, Pa.
 Danville Wholesale Drug Co., Inc., Danville, Ill.
 Darrow Chemical Co., Kansas City, Mo.
 David & Blankfield, Inc., San Antonio, Tex.

- Davies-Young Soap Co., The, Dayton, Ohio.
- Deco Products Co., Inc., New York, N. Y.
- Delta Chemical Co., New York, N. Y.
- Delta Plumbing Supply Co., Inc., New Orleans, La.
- DeLuxe Broom Co., Portland, Oreg.
- Del-Zo Co., Atlanta, Ga. (In principle.)
- Den Wal Mfg. Co., The, Piermont, N. Y.
- Dentocide Chemical Co., Baltimore, Md.
- Derris, Inc., New York, N. Y.
- DeVine Laboratories, Inc., J. F., Goshen, N. Y.
- Diamond Chemical and Supply Co., Wilmington, Del.
- Dixie Chemical Co., Inc., New Orleans, La.
- Dixie Chemical Products Co., Ltd., Birmingham, Ala.
- Dixie Disinfecting Co., Dallas, Tex.
- Dolge Co., C. B., Westport, Conn.
- Dow Chemical Co., The, Midland, Mich. (In principle.)
- Dreyfus Janitor Supply Co., Ponca City, Okla.
- Eau Claire Book and Stationery Co., Milwaukee, Wis.
- Eckman Chemical Co., Omaha, Nebr.
- Ehrlich, J. C., Reading, Pa.
- Ellis Products Co., Detroit, Mich.
- Empire Chemical Co., Brooklyn, N. Y.
- Endo Chemical Co., Columbia, S. C.
- Ens-Em Chemical Co., New York, N. Y. (In principle.)
- Enterprise Mill Soap Works, Philadelphia, Pa.
- Ephraim, Inc., Jerome W., New York, N. Y.
- Ewing Paper Co., B. G., Spokane, Wash.
- Exterminator Engineering Corporation, Chicago, Ill.
- Farmers Union Central Exchange, Inc., South St. Paul, Minn.
- Federal Sanitation Co., Inc., The, Cleveland, Ohio.
- Fergusson Co., Alex C., Philadelphia, Pa.
- Fidelity Fire Protection Co., Philadelphia, Pa.
- Fischbeck Co., Inc., Charles, New York, N. Y. (In principle.)
- Frankle, Inc., Jos. E., Philadelphia, Pa.
- Franklin Chemical Co., Rochester, N. Y.
- Franklin Drug Store, Port Arthur, Tex.
- Franklin Products Corporation, Tampa, Fla.
- Franklin Thrift Stores, Co., The, Piqua, Ohio.
- Frederick Disinfectant Co., Atlanta, Ga.
- Frontier Alkali Corporation, Buffalo, N. Y.
- Frye Co., Geo. C., Portland, Maine. (In principle.)
- Fuld Brothers, Baltimore, Md.
- Furst-McNess Co., Freeport, Ill.
- Gakenheimer's Pharmacy, Baltimore, Md.
- Gass Co., Inc., W. J., St. Louis, Mo.
- Gates Medicine Co., Charleston, W. Va.
- Genesee Disinfecting Co., Rochester, N. Y.
- Getem Manufacturing Co., Norfolk, Va.
- Getz Exterminators, Inc., St. Louis, Mo., and other cities.
- Giant Products Corporation, Los Angeles, Calif.
- Gillam Soap Works, Ft. Worth, Tex.
- Givaudan, Delawanna, Inc., New York, N. Y. (In principle.)
- Gleam Products Corporation, Bronx, N. Y.
- Globe Sanitary Supply Co., Los Angeles, Calif.
- Gobell Co., John J., New Bedford, Mass.
- Goble Printing Co., The D. H., Greenfield, Ind.
- Good, Inc., James, Philadelphia, Pa.
- Gordon Chemical Co., Geo. C., Kansas City, Mo.
- Government Chemical Co., Cleveland, Ohio.
- Grant Laboratories, Oakland, Calif.
- Great Falls Paper Co., Great Falls, Mont.
- Great Lakes Chemical Utilities, Buffalo, N. Y.
- Green Mask Laboratories, Sioux City, Iowa.
- Green Oil Soap Co., Chicago, Ill.
- Greenbaum Co., Inc., C. D., New York, N. Y.
- Griffin Bros., Inc., Portland, Oreg.
- Griffin Chemical Co., San Francisco, Calif. (In principle.)
- Griffith Laboratories, The, Chicago, Ill.
- Gulf Oil Corporation, Pittsburgh, Pa.
- Gulf Refining Co., Pittsburgh, Pa.
- Gulf Research and Development Co., Pittsburgh, Pa. (In principle.)
- H. & L. Products Co., Linden, N. J. (In principle.)
- Haag Laboratories, Inc., The, Chicago, Ill.
- Hammond & Son, Inc., W. P., Milwaukee, Wis.
- Hart-Shaw Drug Co., Adrian, Mich.
- Hartford Sanitary Products Co., The, Hartford, Conn.
- Hayner Co., Norman C., Rochester, N. Y.
- Heaney Manufacturing Co., Boston, Mass.
- Helgren Drug Co., Jamestown, N. Y.
- Hercules Powder Co., Naval Stores Department, Wilmington, Del. (In principle.)
- Hess & Clark, Inc., Dr., Ashland, Ohio.
- Hill Brothers Chemical Co., Los Angeles, Calif.
- Hillyard Chemical Co., St. Joseph, Mo.

- Hirschberg Brothers, Chicago, Ill.
 Hockwald Chemical Co., San Francisco, Calif.
 Hoffman Laboratories, Detroit, Mich.
 Holcomb Manufacturing Co., J. I., Indianapolis, Ind.
 Hospital Bureau of Standards and Supplies, Inc., New York, N. Y.
 Household Chemical Products, Brooklyn, N. Y.
 Household Products Co., Indianapolis, Ind.
 Hoyt Brothers, Inc., Newark, N. J.
 Hub City School Supply Co., Aberdeen, S. Dak.
 Hudson Chemical Co., St. Louis, Mo.
 Huggins & Son, James, Malden, Mass. (In principle.)
 Hughes Chemical Co., Ft. Worth, Tex.
 Huisking & Co., Inc., Chas. L., New York, N. Y.
 Hunt Manufacturing Co., Cleveland, Ohio.
 Hy-Gien Laboratories, Inc., Amesbury, Mass.
 Hysan Products Co., Chicago, Ill.
 Imperial Chemical Co., Shenandoah, Iowa.
 Imperial Laboratories, Mt. Hope, W. Va.
 Imperial Products Co., Philadelphia, Pa.
 Imperial Sales Co., Halifax, Mass.
 Industrial Chemical Laboratories, Omaha, Nebr.
 Industrial Chemical Products Co., Philadelphia, Pa.
 Industrial Distributors, Inc., New York, N. Y.
 Insect Control Service, Pittsburgh, Pa.
 Interstate Chemical Manufacturing Co., Jersey City, N. J.
 Interstate Sanitation Co., Inc., The, Cincinnati, Ohio.
 Iowa Hospitals, State University of, Iowa City, Iowa.
 Jacques Beauty Supply, Omaha, Nebr. (In principle.)
 James Soap and Chemical Co., Houston, Tex.
 Janitorial Supply Co., Passaic, N. J.
 Janitor's Supply House, Cranston, R. I.
 Johns Hopkins Hospital, The, Baltimore, Md.
 Jorgenson & Co., Los Angeles, Calif.
 Judson Co., The Dwight R., Hartford, Conn.
 Kalo Co., The, Quincy, Ill. (In principle.)
 Keller Products Co., Columbus, Ohio.
 Kemiko Manufacturing Co., Irvington, N. J.
 Kentucky Color and Chemical Co., Louisville, Ky.
 Kerr Co., Frank W., Detroit, Mich.
 Kessler Chemical Corporation, The, Philadelphia, Pa. (In principle.)
 King Chemical Co., Philadelphia, Pa.
 Kirk Hutton & Co., New Castle, Pa.
 Kling Exterminating Co., Chicago, Ill.
 Kretol Co., Inc., Washington, D. C.
 Krummenacher Drug Co., Clayton, Mo.
 Kuhn Manufacturing Co., The, Macon, Ga.
 L. B. Drug Co., The, Gadsden, Ala.
 La Maison Products, Inc., Brooklyn, N. Y.
 Lambert Chemical Co., Kansas City, Mo.
 Lamprey Products Co., St. Paul, Minn.
 Lanair Co., Chicago, Ill.
 Leader Manufacturing Co., Wilkes-Barre, Pa.
 Lee Co., A., Lawrence, Mass.
 Lee Co., Geo. H., Omaha, Nebr.
 Lehn & Fink Products Corporation, Bloomfield, N. J.
 Lehrman and Sons, A. J., Harrisburg, Pa.
 Lesh Oil Co., Ottawa, Kans.
 Lewis Co., Inc., Samuel, New York, N. Y.
 Lien Chemical Co., Chicago, Ill.
 Lincoln-Ray Hill Co., Springfield, Mass.
 Lone Star Supply Co., Houston, Tex.
 Long Beach, Better Business Bureau of, Long Beach, Calif. (In principle.)
 Long Island Sanitary Supply Co., Woodside, Long Island, N. Y.
 Los Angeles Chemical Co., Los Angeles, Calif.
 Los Angeles, City of, Los Angeles, Calif.
 Louisiana Paper Co., Ltd., Shreveport, La.
 Loveland Janitor Supply Co., Wichita, Kans.
 Lowe Chemical Co., Nashville, Tenn.
 MacNair-Dorland Co., Inc., New York, N. Y. (In principle.)
 Magicleaner Corporation, New York, N. Y. (In principle.)
 Maine Germicide Co., Portland, Maine.
 Maintenance Supply and Service Co., Chicago, Ill.
 Majestic Wax Co., Denver, Colo.
 Marjo Products Co., Chicago, Ill.
 Marlowe-Van Loan Corporation, High Point, N. C.
 Marvel Products Co., Inc., Jacksonville, Fla.
 Massasoit Chemical Co., The, Cincinnati, Ohio.
 Master Chemical Co., Milwaukee, Wis.
 Masury Young Co., Boston, Mass.
 McKesson & Robbins, Inc., Langley-Michaels Division, San Francisco, Calif.
 McKone Sales Co., Hartford, Conn.
 McLeod Exterminating Service, Rochester, N. Y.
 Meyer Chemical Co., Sioux City, Iowa.
 Miami Products and Chemical Co., The, Dayton, Ohio.

- Midwest Kildew Co., Des Moines, Iowa.
 Miller Chemical Co., Inc., Omaha, Nebr.
 Miller Co., J. E., Wheeling, W. Va.
 Miller Products Co., Portland, Oreg. (In principle.)
 Mil-Wis Chemical Co., Milwaukee, Wis.
 Miracle Manufacturing Co., Ft. Wayne, Ind.
 Mirax Chemical Products Corporation, St. Louis, Mo.
 Missanna Laboratories, Inc., Little Rock, Ark.
 Monarch Printing and Supply Co., The, Marion, Ohio. (In principle.)
 Monroe Exterminating Co., Chicago, Ill.
 Moulder-Oldham Co., Inc., Tulsa, Okla.
 Murtough Supply Co., Tacoma, Wash.
 Myers Paper Co., Memphis, Tenn.
 Nannene & Co., P., Chelsea, Mass.
 Nash Medical Co., F. A., Galena, Ill.
 National Chemical Co., New Orleans, La.
 National Cleanser Products Co., New York, N. Y.
 National Disinfecting Co., New York, N. Y.
 National Novelty Co., Lancaster, Pa.
 National Soap Co., Detroit, Mich.
 National Theatre Supply Co., Seattle, Wash.
 New England Disinfectant Co., Inc., The, Boston, Mass.
 New Orleans, Inc., Better Business Bureau of, New Orleans, La. (In principle.)
 Neway Brush Co., Hartford, Conn. (In principle.)
 Newbro Drug Co., Butte, Mont.
 Newerking Cleaning Fluid Co., Inc., New York, N. Y. (In principle.)
 Newport Industries, Inc., General Naval Stores Division, Pensacola, Fla. (In principle.)
 Newton & Co., A. E., Brooklyn, N. Y.
 North American Chemical Co., New York, N. Y.
 Northern Indiana Supply Co., Inc., Kokomo, Ind.
 Northern Laboratories, Mason City, Iowa.
 Northern School Supply Co., Fargo, N. Dak.
 Northern School Supply Co., Great Falls, Mont.
 Nowland Co., The Geo. H., Cincinnati, Ohio.
 Nu-Way Exterminating Co., Newark, N. J.
 O'Connor & Kremp, New York, N. Y.
 O-Dor-Cide Co., The, Newark, N. J.
 Ohio State University, Department of Zoology and Entomology, Columbus, Ohio. (In principle.)
 Omaha School Supply Co., Omaha, Nebr.
 Oneida Chemical Co., Inc., Utica, N. Y.
 Orange Memorial Hospital, Orange, N. J.
 Osgood Co., The Charles, Norwich, Conn.
 Overton-Hygienic Manufacturing Co., Chicago, Ill.
 Pacific Marine Supply Co., Seattle, Wash.
 Packer-Scott Co., Portland, Oreg.
 Palmer Products, Inc., Waukesha, Wis.
 Palmyra Lime Products Co., Clarks-ville, Tenn.
 Panama Paint and Chemical Products Co., Panama City, Fla.
 Paramount Laboratories, Inc., Bing-hamton, N. Y.
 Parkin Chemical Co., Newark, N. J.
 Paterson General Hospital, Paterson, N. J.
 Patterson Laboratories, Inc., Detroit, Mich.
 Peabody Anti-Dust Co., Peabody, Mass. (In principle.)
 Pearl Supply Co., New York, N. Y.
 Peerless Soap and Chemical Co., De-troit, Mich.
 Penick & Co., S. B., New York, N. Y.
 Penn Waxing and Janitor Supplies, Wilkes-Barre, Pa.
 Pennsylvania Chemical Co., Johnstown, Pa.
 Pennsylvania, Commonwealth of, De-partment of Property and Supplies, Harrisburg, Pa.
 Pennsylvania Hospital, Philadelphia, Pa.
 Pennsylvania Refining Co., Butler, Pa.
 Pennsylvania Salt Manufacturing Co., General Laboratories Division of, Philadelphia, Pa.
 Peripad Co., Inc., The, Indianapolis, Ind.
 Phinney & Co., F. B., Hyde Park, Mass.
 Phinotas Chemical Co., Inc., New York, N. Y.
 Pine-O-Pine Co., Inc. of Texas, Hous-ton, Tex.
 Pintell Co., The, New York, N. Y.
 Pittsburgh Insect Exterminating Co., Pittsburgh, Pa.
 Polar Chemical Co., Inc., The, Lewiston, Maine.
 Port Huron Detergent Co., Inc., Port Huron, Mich. (In principle.)
 Potter Drug and Chemical Corporation, Malden, Mass. (In principle.)
 Pottsville Show Case and Fixture Co., Pottsville, Pa.
 Powell & Co., Inc., John, New York, N. Y. (In principle.)
 Practical Drawing Co., Dallas, Tex.
 Preiser Co., Inc., B., Charleston, W. Va.
 Premier Institutional Supplies Co., New York, N. Y.
 Puro Chemicals, Inc., Cleveland, Ohio.
 Quality Products Laboratories, Inc., Richmond, Va.
 Range Paper Co., Inc., Virginia, Minn.

- Rawleigh Co., The W. T., Freeport, Ill.
 Rea's Soap Specialty, Kenton, Ohio.
 Red Letter "J" Co., Germantown, Philadelphia, Pa.
 Remo Sanitation Co., Pittsburgh, Pa.
 Republic Chemical Co., Chicago, Ill.
 Reynolds & Sons, James T., Lapeer, Mich.
 Richmond Stationery Co., Inc., Richmond, Va. (In principle.)
 Ridgewood Hardware Co., Inc., Ridgewood, N. J.
 Rip Products, Jamaica, Long Island, N. Y.
 Robbins Disinfectant Co., Inc., Geo. B., Boston, Mass.
 Roberts & Meck, Inc., Harrisburg, Pa.
 Robertson Products Co., Inc., Theo. B., Chicago, Ill.
 Rochester Germicide Co., Rochester, N. Y.
 Rochester Janitor Supplies, Inc., Rochester, N. Y.
 Rochester Laboratories, Rochester, Minn. (In principle.)
 Rockwell Co., The, Pittsfield, Mass.
 Röhm & Haas Co., Inc., Philadelphia, Pa.
 Rose Exterminator Co. of San Francisco, Calif., San Francisco, Calif.
 Roure-Dupont, Inc., New York, N. Y. (In principle.)
 Rupp & Bowman Co., The, Toledo, Ohio.
 Rusk Oil Co., Inc., Philadelphia, Pa.
 St. John's Hospital, Brooklyn, N. Y.
 St. Louis Janitor Supply Co., St. Louis, Mo.
 St. Luke's Hospital, Bethlehem, Pa.
 Sancamo Disinfecting Co., Springfield, Ill.
 Sanitary Appliance Co., Elmira, N. Y.
 Sanitary Maintenance Co., Boston, Mass.
 Satrang & Cleminson, Inc., Sioux City, Iowa.
 Savannah Brush Co., Savannah, Ga.
 Sayers & Co., Philadelphia, Pa.
 Scientific Exterminating and Fumigating Co., West New York, N. Y.
 Scientific Exterminating Research Laboratories, Brooklyn, N. Y.
 Scientific Supply Co., Inc., Denver, Colo.
 Scranton Better Business Bureau, Scranton, Pa. (In principle.)
 Seacoast Laboratories, Inc., New York, N. Y.
 Seaver Laboratories, Beloit, Wis. (In principle.)
 Selig Co., The, Atlanta, Ga.
 Selma Chemical Products Co., New York, N. Y.
 Sentinel Chemical Co., Inc., Oakland, Calif.
 Sentinel Sanitary Supply Co., Oakland, Calif.
 Service Station Supply Co., Charlotte, N. C.
 Shearer Co. of California, B. F., San Francisco, Calif.
 Shell Petroleum Corporation, St. Louis, Mo.
 Sheppard Supply Co., M. F., Bayonne, N. J.
 Sinclair Refining Co., New York, N. Y.
 Sioux Falls Book and Stationery Co., Sioux Falls, S. Dak.
 Skinner & Sherman, Inc., Boston, Mass. (In principle.)
 Smith & Co., S. A., New York, N. Y.
 Snell, Inc., Foster D., Brooklyn, N. Y.
 Soap and Chemical, Inc., Pittsburgh, Pa.
 Solomons Co., Savannah, Ga.
 Solshine Manufacturing Co., Cambridge, Mass.
 Solvent Compounds Co., Redwood City, Calif.
 Southern Chemical Co., Charleston, W. Va.
 Southern Products Co., Chattanooga, Tenn.
 Southwestern Mill Distributors, El Paso, Tex.
 Speare's Sons Co., The Alden, Cambridge, Mass.
 Spokane Paper and Stationery Co., Spokane, Wash.
 Stanco, Inc., New York, N. Y.
 Standard Chemical Co., St. Louis, Mo. (In principle.)
 Standard Janitors Supply Co., Inc., New York, N. Y.
 Standard Oil Co. of California, San Francisco, Calif.
 Standard Oil Co. (Indiana), Chicago, Ill.
 Standard Oil Co., The (Ohio), Cleveland, Ohio.
 Standard School Co., St. Louis, Mich.
 Standard Tar Products Co., Milwaukee, Wis.
 Star Chemical Co., Inc., San Antonio, Tex.
 Star Drug Store, Galveston, Tex.
 Star Paper Co., Inc., Haverhill, Mass.
 Sterling Office and School Supply Co., Johnstown, Pa.
 Sterling Soap and Chemical Co., Inc., Wilmington, Del.
 Styron-Beggs Co., The, Newark, Ohio.
 Suhm Co., Inc. (Formerly Cream City Chemical Works), Milwaukee, Wis.
 Sun Chemical Co., Cincinnati, Ohio.
 Sunrise Supply Co., New York, N. Y.
 Superior Chemical Co., Houston, Tex.
 Superl Supply Co., Inc., Los Angeles, Calif.
 Sur. Wa. Exterminator Co., Cincinnati, Ohio.
 Sweeney, Manufacturer, W. R., Salisbury, Mo.
 Sweet Ozone Co., Brooklyn, N. Y.

- Syracuse Victory Soap Corporation, Syracuse, N. Y.
 System Products Co., Chicago, Ill.
 T. & B. Soap Co., Milwaukee, Wis.
 T. N. T. Exterminating Co., Akron, Ohio.
 Tanglefoot Co., The (The O. & W. Thum Co.), Grand Rapids, Mich.
 Taylor Co., H. D., Buffalo, N. Y.
 Terra Chemical Corporation, New York, N. Y.
 Texas Household Supply, Dallas, Tex., and Ft. Worth, Tex.
 Thompson-Hayward Chemical Co., Kansas City, Mo.
 Toc's Products Co., Syracuse, N. Y.
 Trabant & Co., Inc., Louis C., East St. Louis, Ill.
 Treant Products Works, Port Norris, N. J.
 Tri-State Janitor Supply Co., Wilmington, Del.
 Triangle Products Co., Fairfield, Maine.
 Tropical Chemical Co. of California, Los Angeles, Calif.
 Try Aid Chemical Products Co., Youngstown, Ohio.
 Tulip Grove Products, Inc., Hermitage, Tenn.
 Tumbler Laboratories, J. A., Baltimore, Md.
 Tunis Brothers Co., Kennett Square, Pa.
 Tyler Oil and Grease Corporation, Richmond, Va.
 Tyler Products Co., Pawtucket, R. I.
 Union Chemical and Supply Co., The, Akron, Ohio.
 Union Oil Co. of California, Los Angeles, Calif.
 U. S. Termite Control Corporation, Ltd., Pasadena, Calif.
 Universal Exterminating Co., Columbus, Ohio.
 University Publishing Co., The, Lincoln, Nebr.
 Upton-Walker Co., Malden, Mass.
 Van Denberg Supply Co., Rockford, Ill.
 Vasco Products Co., Inc., Elmira, N. Y.
 Vawter Manufacturing Co., J. H., Salem, Ill.
 Verm-O-Spray Products Co., Inc., Bridgeport, Conn.
 Vernon Drug Co., Middletown, N. Y.
 Vestal Chemical Co., St. Louis, Mo.
 Victory Chemical Co., Philadelphia, Pa.
 Waite Hardware Co., Worcester, Mass.
 Walsh, William Henry, Chicago, Ill.
 Waltham Chemical Co., Waltham, Mass.
 Ward Co., D. L., Philadelphia, Pa.
 Ward, Davis & Dunn, Inc., Los Angeles, Calif.
 Wasatch Chemical Co., Salt Lake City, Utah.
 Washington School Supply Co., Seattle, Wash.
 Watkins Co., The J. R., Winona, Minn.
 Waverly Manufacturing Co., Philadelphia, Pa.
 West Disinfecting Co., Long Island City, N. Y.
 Wetallene Lab. Inc., Columbus, Ohio. (In principle.)
 White Co., L. J., Chicago, Ill.
 White Co., Robert C., Philadelphia, Pa.
 White Tar Co. of N. J., Inc., The, Kearny, N. J.
 Whitmire Research Corporation, St. Louis, Mo.
 Wholesale Janitors' Supply Co., Chicago, Ill.
 Whopper Sales, Buffalo, N. Y.
 Wichita Broom and Floor Sweep Co., Wichita Falls, Tex. (In principle.)
 Wilbur Chemical Co., North Bergen, N. J.
 Williams Chemical Laboratories, Springfield, Ill.
 Williams Co., J. A., Pittsburgh, Pa.
 Willis Sanitary Products Co., Lincoln, Nebr.
 Willis Supply Co., Duluth, Minn.
 Winsale Drug Co., Brooklyn, N. Y. (In principle.)
 Wisconsin, State of, Bureau of Purchases, Madison, Wis. (In principle.)
 Wollen Chemical and Supply Co., Paterson, N. J.
 Wonder Products Co., Salisbury, N. C.
 World Spray Co., Inc., Los Angeles, Calif.
 Yaeger-Jacquin Co., Peoria, Ill.
 York Co., The G. W., Madrid, Iowa.
 Zahr Soap Manufacturing Co., Kansas City, Mo.

U. S. GOVERNMENT

Agriculture, U. S. Department of, Washington, D. C.

COMMERCIAL STANDARDS

CS No.	Item	CS No.	Item
0-30.	The commercial standards service and its value to business.	40-32.	Surgeons' rubber gloves.
1-32.	Clinical thermometers (second edition).	41-32.	Surgeons' latex gloves.
2-30.	Mopsticks.	42-35.	Fiber insulating board (second edition).
3-38.	Stoddard solvent (second edition).	43-32.	Grading of sulphonated oils.
4-29.	Staple porcelain (all-clay) plumbing fixtures.	44-32.	Apple wraps.
5-29.	Steel pipe nipples.	45-36.	Douglas fir plywood (domestic grades) (second edition).
6-31.	Wrought-iron pipe nipples (second edition).	46-36.	Hosiery lengths and sizes (second edition).
7-29.	Standard weight malleable iron or steel screwed unions.	47-34.	Marking of gold-filled and rolled-gold-plate articles other than watch cases.
8-33.	Gage blanks (second edition).	48-34.	Domestic burners for Pennsylvania anthracite (underfeed type).
9-33.	Builders' template hardware (second edition).	49-34.	Chip board, laminated chip board, and miscellaneous boards for bookbinding purposes.
10-29.	Brass pipe nipples.	50-34.	Binders board for bookbinding and other purposes.
11-29.	Regain of mercerized cotton yarns.	51-35.	Marking articles made of silver in combination with gold.
12-33.	Fuel oils (fourth edition).	52-35.	Mohair pile fabrics (100-percent mohair plain velvet, 100-percent mohair plain frieze, and 50-percent mohair plain frieze).
13-30.	Dress patterns.	53-35.	Colors and finishes for cast stone.
14-31.	Boys' blouses, button-on waists, shirts, and junior shirts.	54-35.	Mattresses for hospitals.
15-29.	Men's pajamas.	55-35.	Mattresses for institutions.
16-29.	Wall paper.	56-36.	Oak flooring.
17-32.	Diamond core drill fittings (second edition).	57-36.	Book cloths, buckrams, and impregnated fabrics for bookbinding purposes except library bindings.
18-29.	Hickory golf shafts.	58-36.	Woven elastic fabrics for use in overalls (overall elastic webbing).
19-32.	Foundry patterns of wood (second edition).	59-36.	Woven dress fabrics—testing and reporting.
20-36.	Staple vitreous china plumbing fixtures (second edition).	60-36.	Hardwood dimension lumber.
21-36.	Interchangeable ground-glass joints, stopcocks, and stoppers (third edition).	61-37.	Wood-slat venetian blinds.
22-30.	Builders' hardware (nontemplate).	62-38.	Colors for kitchen accessories.
23-30.	Feldspar.	63-38.	Colors for bathroom accessories.
24-30.	Standard screw threads.	64-37.	Walnut veneers.
25-30.	Special screw threads.	65-38.	Wool and part-wool fabrics.
26-30.	Aromatic red cedar closet lining.	66-38.	Marking of articles made wholly or in part of platinum.
27-36.	Mirrors (second edition).	67-38.	Marking articles made of carat gold.
28-32.	Cotton fabric tents, tarpaulins, and covers.	68-38.	Liquid hypochlorite disinfectant, deodorant and germicide.
29-31.	Staple seats for water-closet bowls.	69-38.	Pine oil disinfectant.
30-31.	Colors for sanitary ware.	70-38.	Coal tar disinfectant (emulsifying type).
31-35.	Wood shingles (third edition).	71-38.	Cresylic disinfectants.
32-31.	Cotton cloth for rubber and pyroxylin coating.	72-38.	Household insecticide (liquid spray type).
33-32.	Knit underwear (exclusive of rayon).		
34-31.	Bag, case, and strap leather.		
35-31.	Plywood (Hardwood and Eastern Red Cedar).		
36-33.	Fourdrinier wire cloth (second edition).		
37-31.	Steel bone plates and screws.		
38-32.	Hospital rubber sheeting.		
39-37.	Wool and part wool blankets (second edition).		

NOTICE.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice in their industry, may secure copies of the above standards, while the supply lasts, by addressing the Division of Trade Standards, National Bureau of Standards, Washington, D. C.